## nature portfolio

Corresponding author(s):

Double-blind peer review submissions: write DBPR and your manuscript number here

author(s): <u>instead of author names.</u>

Last updated by author(s): Jan 7, 2022

## **Reporting Summary**

- A description of any restrictions on data availability

- For clinical datasets or third party data, please ensure that the statement adheres to our policy

All data generated or analysed during this study are included in this published article (and its supplementary information files).

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

Statistics				
For all statistical an	alyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a Confirmed	2 Confirmed			
☐ ☐ The exact	t sample size $(n)$ for each experimental group/condition, given as a discrete number and unit of measurement			
A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
	istical test(s) used AND whether they are one- or two-sided amon tests should be described solely by name; describe more complex techniques in the Methods section.			
A descript	A description of all covariates tested			
A descript	cription of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons			
A full desc	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient)  AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)			
For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted <i>Give P values as exact values whenever suitable.</i>				
For Bayes	ian analysis, information on the choice of priors and Markov chain Monte Carlo settings			
For hierar	chical and complex designs, identification of the appropriate level for tests and full reporting of outcomes			
Estimates	of effect sizes (e.g. Cohen's $d$ , Pearson's $r$ ), indicating how they were calculated			
•	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.			
Software an	d code			
Policy information	olicy information about <u>availability of computer code</u>			
Data collection	Excel For windows			
Data analysis	PrismGrahPad 8.0			
	g custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.			
Data				
All manuscripts m	about <u>availability of data</u> ust include a <u>data availability statement</u> . This statement should provide the following information, where applicable: s, unique identifiers, or web links for publicly available datasets			

Field-spe	cific re	porting	
Please select the or	ne below that is	the best fit for your research. If you are not sure, read the appropriate sections before making your selection.	
X Life sciences	B	ehavioural & social sciences	
For a reference copy of t	he document with a	all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>	
Life scier	ices stu	ıdy design	
All studies must dis-	close on these points even when the disclosure is negative.		
Sample size	Sample size was calculated to be at least the minimum necessary to perform statistical analysis		
Data exclusions	Data exclusion was not applied		
Replication	All experiments were carried out at least three independent times, including a minimum of two technical replicates in each assay		
Randomization	Not applicable		
Blinding	The assays were performed blinded by one professional, codified and then read by another professional.		
We require information system or method list  Materials & exp	on from authors a ed is relevant to perimental sy	<del></del>	
n/a Involved in the study  n/a Involved in the study  ChIP-seq			
☐ ☐ Eukaryotic cell lines ☐ Flow cytometry			
Palaeontology and archaeology MRI-based neuroimaging			
Animals and other organisms			
Human research participants			
Clinical data   Dual use research of concern			
Dual use le	search of concer	'	
Eukaryotic co	ell lines		
Policy information a	about <u>cell lines</u>		
www.far.fi		Calu-3 cells and VeroE6 cells. Calu-3 cell was donated by Farmanguinhos, cell culture platform RPT11M.: https://www.far.fiocruz.br/plataforma-de-avaliacao-de-atividade-antitumoral/. VeroE6 cells were purchased from Rio de Janeiro's cell bank: http://bcrj.org.br/celula/VERO-E6-MONKEY-EPITHELIAL	
Authentication		We did not perform specific authentication on the cellular systems used	

Cells were periodically monitored as negative for mycoplasma using a PCR-based method

iclac.org/databases/cross-contaminations/)

No commonly misidentified lines were used according to the version 11, released 8 June 2021, on ICLAC website (https://

Mycoplasma contamination

Commonly misidentified lines

(See <u>ICLAC</u> register)